

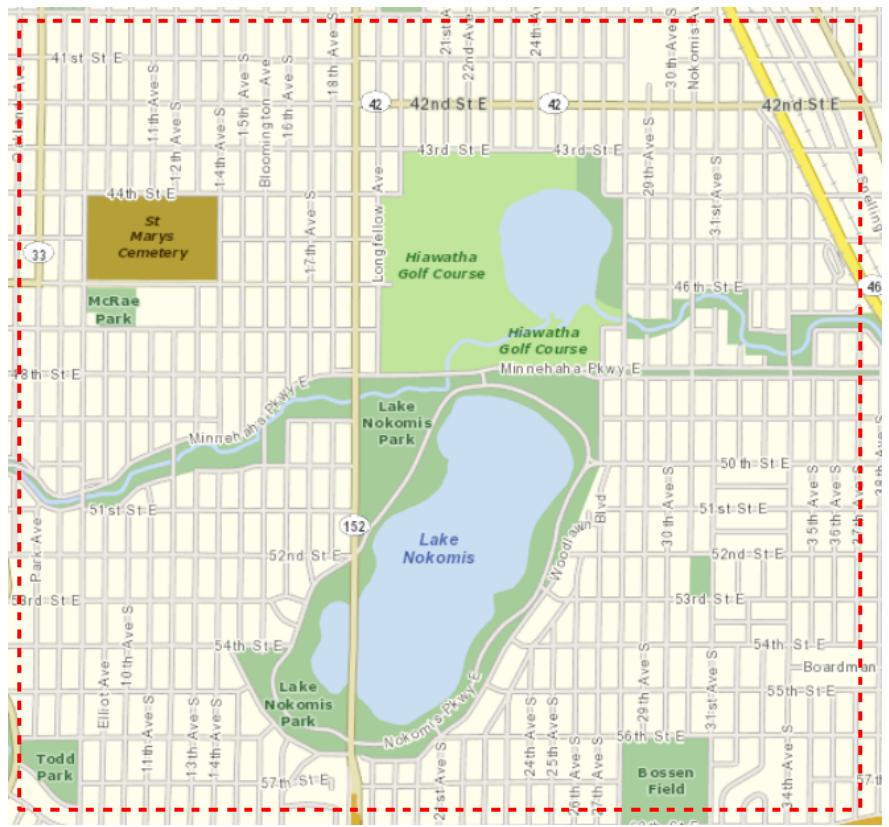


Hydrogeologic information for Lakes Nokomis and Hiawatha

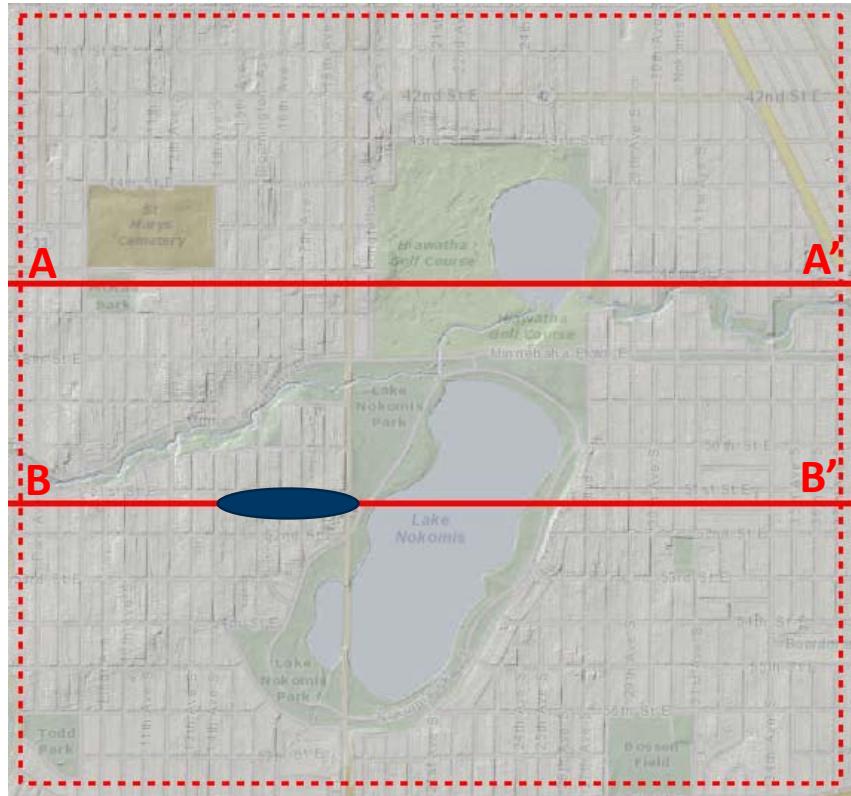
Jeremy Rivord | Hydrologist

Lake Nokomis/Hiawatha Area Meeting
November 30, 2017

Local hydrogeology



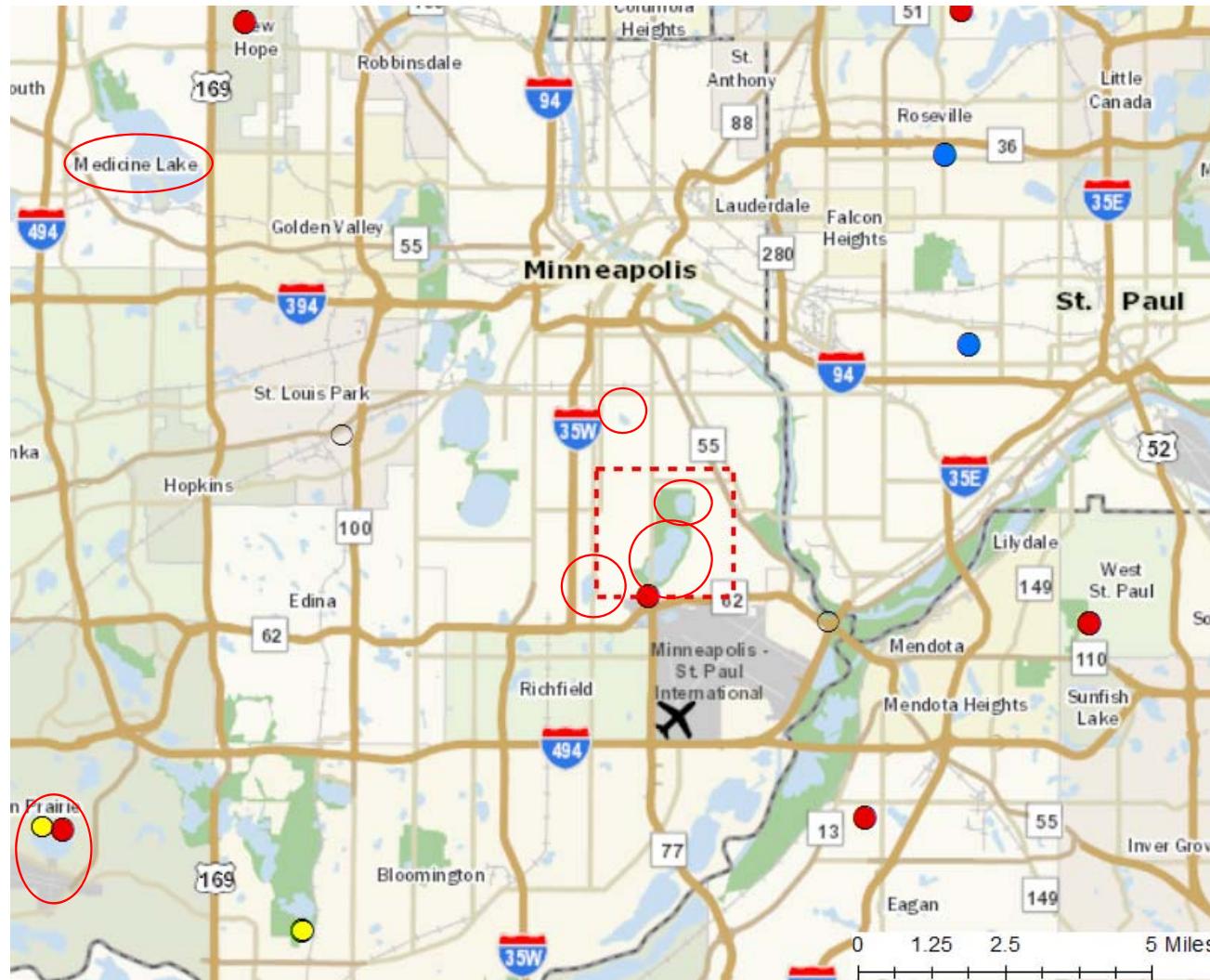
Local hydrogeology—geologic cross-sections



B

B'

Available hydrologic data



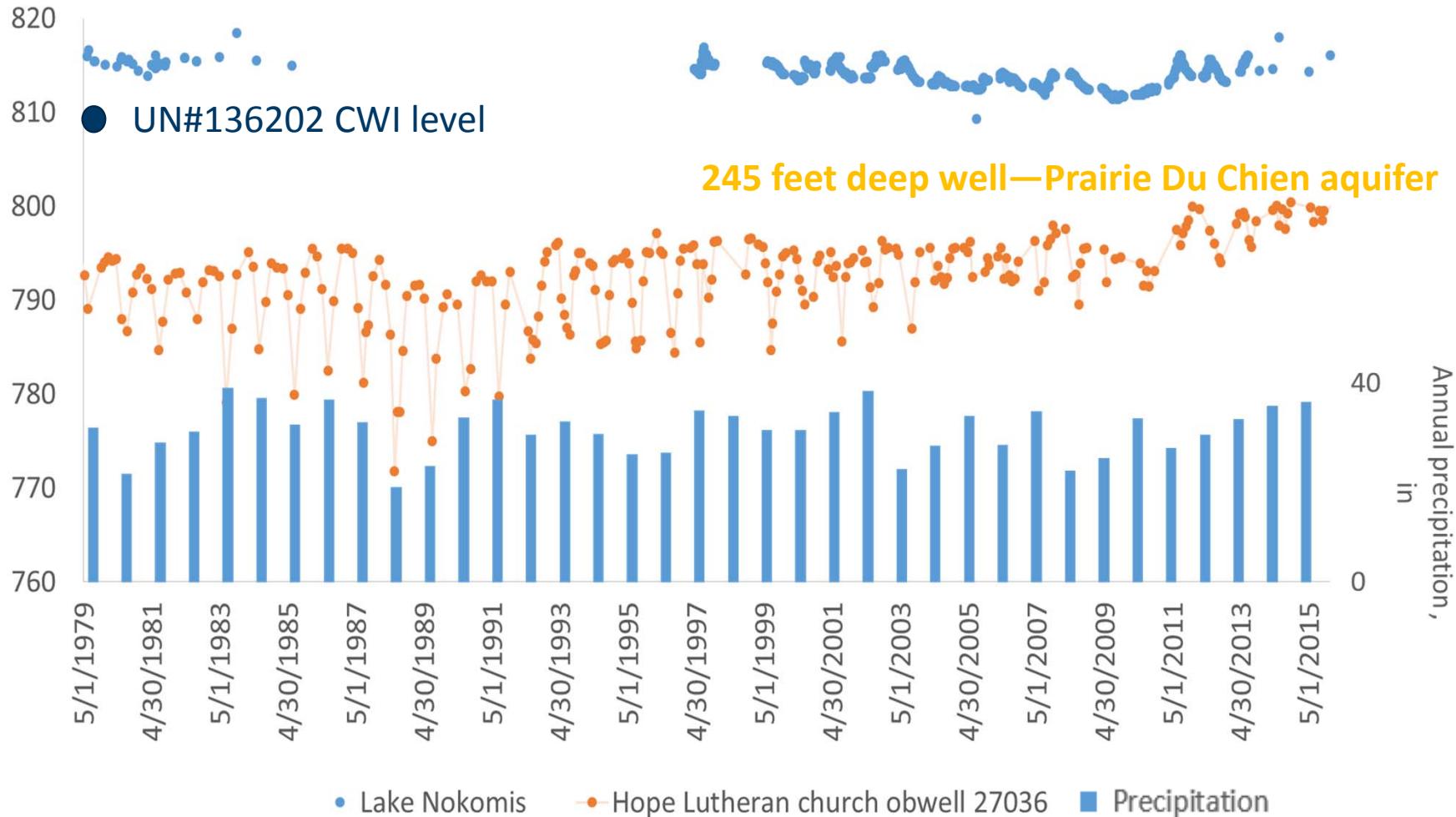
AOI - Area of Interest

DNR obwell by Aquifer

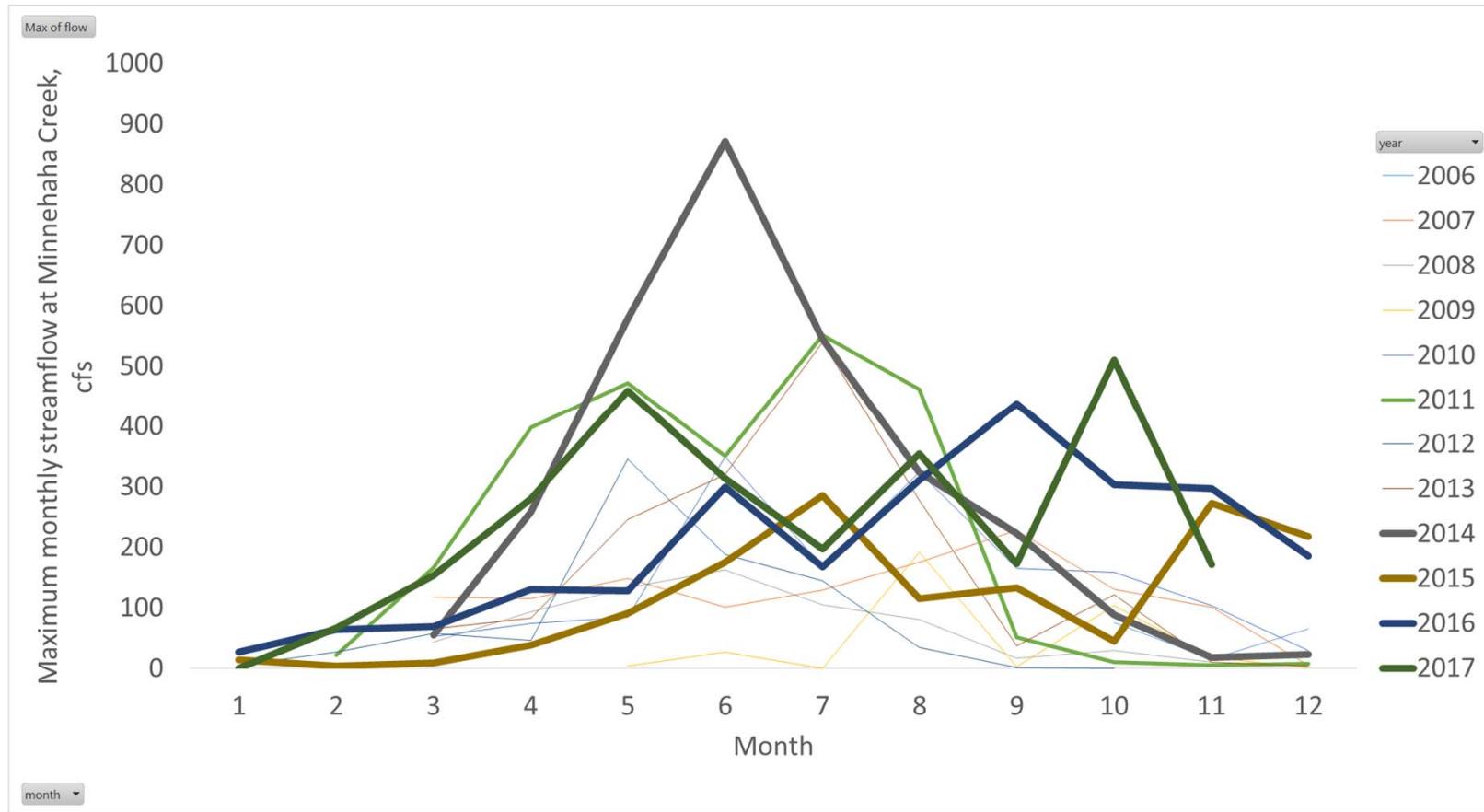
- Water table
- Buried Quaternary
- Platteville
- St. Peter
- Prairie du Chien
- Jordan
- Deep bedrock aquifers

Lake levels

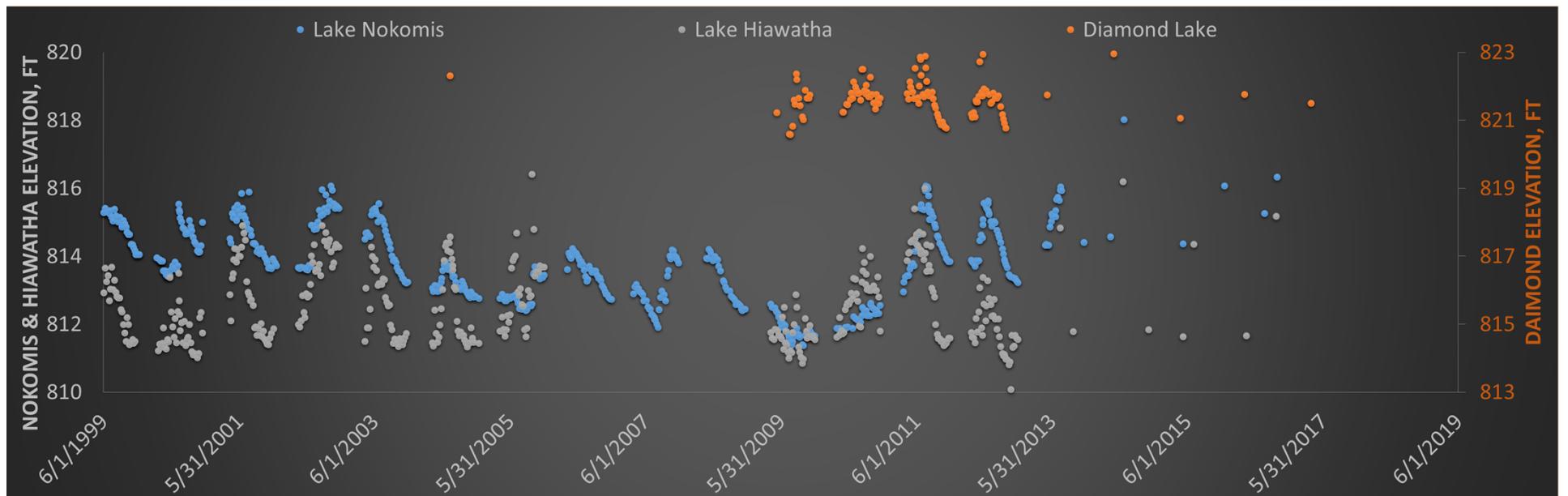
Available hydrologic data—DNR obwell 0.25 miles south of Nokomis at Hope Church



Available hydrologic data—Maximum monthly stream flows in Minnehaha Creek



Available hydrologic data



	Nokomis	Hiawatha	Diamond Lake	Medicine Lak	Prior Lake	Staring Lake	precipitation anomaly
record average elevation	814.3	811.7	822.6	888.0	902.0	814.6	
2008 maximum elevation	814.2			888.5	902.9		-4.9
2014 maximum elevation	818.0	816.2	823.0	889.5	906.2	817.6	8.8
2016 maximum elevation	816.3	815.2	821.8	889.0	902.8	816.0	13.0

Observed dynamics of QWTA and Lake Staring

